



Corr

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Geoffrey Charles Peck
Patent No.: 7,429,730 Issued: September 30, 2008
Serial No.: 10/580,355 Filed: May 23, 2006
Title: SIFT-MS INSTRUMENTS
Attorney File: EV4248US (#90753)

Certificate
DEC 24 2008
of Correction

Commissioner for Patents
Office of Patent Publication
ATTN: Certificate of Correction Branch
P.O. Box 1450
Alexandria, VA 22313-1450

REQUEST FOR CERTIFICATE OF CORRECTION

Sir:

Enclosed is form PTO/SB/44 with a request for correction of the date of Feb. 14, 2004 at item (30) – Foreign Application Priority Data on the cover page. "Feb. 14, 2004" should read – Feb. 12, 2004 –, and this date is substantiated by the following documents, copies of which are enclosed herewith:

- 1) January 21, 2008 letter as faxed to PCT Operations requesting addition of the foreign applications to the official Filing Receipt dated 12/28/2007 and including:
 - a) Copy of Filing Receipt with additions entered thereon;
 - b) Combined Declaration and Power of Attorney as filed with the application – see particularly the top of page 3; and
 - c) Application Data Sheet as filed with the application – see particularly page 2, item 5.
- 2) One page printout from the PAIR record for this case verifying that all documents were filed as noted.

DEC 24 2008

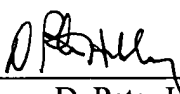
3) A printout from the PAIR record from our file indicating that the correction had been made at least as early as June 18, 2008, well before the patent issued on September 30, 2008.

4) A copy of the cover page of US Patent 7,429,730 with the correction marked thereon.

As this request for corrections is necessitated as the result of a USPTO error, no fee is required. Prompt issuance of a Certificate of Correction for this patent is earnestly solicited.

Respectfully submitted,

DPH/ck
Enc.

By: 
D. Peter Hochberg
Reg. No. 24,603

D. Peter Hochberg Co., L.P.A.
1940 E. 6th Street - 6TH Floor
Cleveland, Ohio 44114
Phone: (216) 771-3800 / Fax: (216) 771-3804
e-mail: dphdocket@aol.com

CERTIFICATE OF MAILING UNDER 37 C.F.R 1.8(a)

I hereby certify that this paper (along with any paper referred to as being attached hereto or transmitted herewith) is being deposited with the United States Postal Service as first class mail in an envelope addressed: Commissioner for Patents, Office of Patent Publication, Attn.: Certificate of Correction Branch, P.O. Box 1450, Alexandria, VA 22313-1450.

Date: December 19, 2008

By: 
Christine Kotran

DEC 24 2008

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

Page 1 of 1

PATENT NO. : 7,429,730
APPLICATION NO.: 10/580,355
ISSUE DATE : September 30, 2008
INVENTOR(S) : Geoffrey Charles Peck

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

At item (30) - Foreign Application Priority Data on the cover page, change "Feb. 14, 2004" to read - Feb. 12, 2004 -.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

D. Peter Hochberg, Esq. - D. Peter Hochberg Co., L.P.A.
1940 East 6th Street - 6th Floor
Cleveland, OH 44114

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: **Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

DEC 24 2008

D. PETER HOCHBERG CO., L.P.A

ATTORNEYS AT LAW

1940 EAST 6TH STREET - 6TH FLOOR
CLEVELAND, OHIO 44114

January 21, 2008

Via fax only: 1 (571) 273-3201 - 9 pages

D. PETER HOCHBERG*
SEAN MELLINO
DANIEL J. SMOLA

IAN M. SINGER***

OF COUNSEL

* ALSO ADMITTED IN
VIRGINIA AND NEW YORK

*** ADMITTED IN NEW YORK ONLY



INTELLECTUAL PROPERTY LAW

PATENT TRADEMARK
AND COPYRIGHT LAW

TEL. (216) 771-3800

FAX. (216) 771-3804

e-mail: dphochberg@aol.com

PCT Operations
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Re: Request for Corrected Filing Receipt for:
Peck U.S. Patent Appln. 10/580,355 filed 05/23/2006
SIFT MS INSTRUMENTS
U.S. National Phase of PCT/NZ2004/000297 filed 11/24/2004
Our Ref. R04248US (#90568)

Dear Sir or Madam:

NW 86

Attached is a copy of page 1 of the official Filing Receipt dated 12/28/2007 for the referenced application that contains an error in the "Foreign Applications" in that the identification of the prior New Zealand applications has been omitted. Please insert this information as noted below and as indicated on the attached copy of the Filing Receipt:

New Zealand Serial No. 528617 filed November 25, 2003
New Zealand Serial No. 531103 filed February 12, 2004

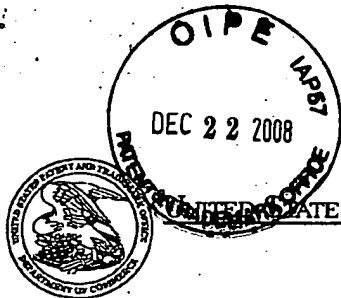
The addition of this information is supported by the enclosed copies of the "Combined Declaration and Power of Attorney" (see top of p. 3) and of the Application Data Sheet (see item 5 on p. 2), both filed with the application.

As the omission of this data from the original Filing Receipt is the result of a USPTO error, please promptly prepare and send us a corrected Filing Receipt as soon as possible.

Respectfully submitted,

Christine Kotran
for D. Peter Hochberg

Att.



DEC 22 2008

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
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Alexandria, Virginia 22313-1450
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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO.	TOT CLAIMS	IND CLAIMS
10/580,355	05/23/2006	2881	450	NW4248US (#90586)	13	2

CONFIRMATION NO. 1738

FILING RECEIPT



Date Mailed: 12/28/2007

28672
D. PETER HOCHBERG CO. L.P.A.
1940 EAST 6TH STREET
CLEVELAND, OH 44114

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Filing Receipt Corrections. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections.

Applicant(s)

Geoffrey Charles Peck, ChristChurch, NEW ZEALAND;

Assignment For Published Patent Application

SYFT Technologies Limited, Middleton Christchurch, NEW ZEALAND

Power of Attorney:

Sean Mellino-48817

Domestic Priority data as claimed by applicant

This application is a 371 of PCT/NZ04/00297 11/24/2004

Foreign Applications

→ **Insert:** New Zealand Serial No. 528617 filed November 25, 2003
New Zealand Serial No. 531103 filed February 12, 2004

If Required, Foreign Filing License Granted: 12/27/2007

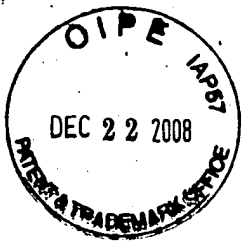
The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 10/580,355**

Projected Publication Date: 04/03/2008

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****



Attorney Docket No. NW4248US (#90586)

COMBINED DECLARATION AND POWER OF ATTORNEY

(ORIGINAL, DESIGN, NATIONAL STAGE OF PCT, SUPPLEMENTAL,
DIVISIONAL, CONTINUATION OR CIP)

As a below named inventor, I hereby declare that:

TYPE OF DECLARATION

This declaration is of the following type: (check one applicable item below)

- ☐ original
- ☐ design

NOTE: If the declaration is for an International Application being filed as a divisional, continuation or continuation-in-part application do not check any of next two items and check appropriate one of last three items.

- ☒ national stage of PCT
- ☐ supplemental

NOTE: If one of the following 3 items apply then complete and also attach ADDED PAGES FOR DIVISIONAL, CONTINUATION OR CIP.

- ☐ divisional
- ☐ continuation
- ☐ continuation-in-part (CIP)

INVENTORSHIP IDENTIFICATION

My residence, post office address and citizenship are as stated below next to my name, I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

TITLE OF INVENTION

IMPROVEMENTS IN OR RELATING TO SIFT-MS INSTRUMENTS

SPECIFICATION IDENTIFICATION

the specification of which: (complete (a), (b), or (c))

- (a) ☒ is attached hereto.

- (b) ☐ was filed on as ☐ Serial No. _____ or
☐ Express Mail No. _____, as Serial No. not yet known
and was amended on _____ (if applicable).
(c) ☐ was described and claimed in PCT International Application
No. _____ filed on _____
and as amendment under PCT Article 19 on _____ (if any).

ACKNOWLEDGEMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations. Sec. 1.56(a).

- ☐ In compliance with this duty there is attached an information
disclosure statement. 37 CFR 1.97.

PRIORITY CLAIM

I hereby claim foreign priority benefits under Title 35, United States Code, Sec. 119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

(complete (d) or (e))

- (d) ☐ no such applications have been filed.
(e) ☒ such applications have been filed as follows

NOTE: Where item (c) is entered above and the International Application which designated the U.S. claimed priority check item (e), enter the details below and make the priority claim.

EARLIEST FOREIGN APPLICATION(S), IF ANY FILED WITHIN 12 MONTHS
(6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION

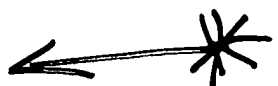
COUNTRY	APPLICATION NO.	DATE OF FILING (month, day, year)	PRIORITY CLAIMED UNDER 37 USC 119
_____	_____	_____	() YES NO ()
_____	_____	_____	() YES NO ()
_____	_____	_____	() YES NO ()

ALL FOREIGN APPLICATION(S), IF ANY FILED MORE THAN 12 MONTHS
(6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION

New Zealand Serial No. 528617 filed November 25, 2003

New Zealand Serial No. 531103 filed February 12, 2004

PCT/NZ2004/000297 filed November 24, 2004



POWER OF ATTORNEY

As a named inventor, I hereby appoint D. Peter Hochberg, Reg. No. 24,603, and Sean Mellino, Reg. No. 48,817, to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

SEND CORRESPONDENCE TO:

D. Peter Hochberg Co., L.P.A.
The Baker Building - 6th Floor
1940 East 6th Street
Cleveland, Ohio 44114

DIRECT TELEPHONE CALLS TO:
(Name and telephone number)

D. Peter Hochberg
(216) 771-3800

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

SIGNATURE(S)

Full name of sole or first inventor: **Geoffrey Charles Peck**

Inventor's signature

Date

10-May-2006

New Zealand

Country of Citizenship

28 Fisher Avenue, Beckenham, Christchurch 8002, New Zealand

Residence

28 Fisher Avenue, Beckenham, Christchurch 8002, New Zealand

Post Office Address

Full name of second joint inventor, if any: _____

Inventor's signature

Date

Country of Citizenship

Residence

Post Office Address

CHECK PROPER BOX(ES) IF ANY OF THE FOLLOWING ADDED PAGE(S)
FORM A PART OF THIS DECLARATION

- () Signature for third and subsequent joint inventors. Number of
pages added _____.
- () Signature by administrator(trix), executor(trix) or legal
representative of deceased or incapacitated inventor. Number
of pages added _____.
- () Signature for inventor who refuses to sign or cannot be reached
by person authorized under 37 CFR 1.47. Number of pages added
_____.

If no further pages form a part of this Declaration then end this Declaration with this page
and check the following item.

(X) This declaration ends with this page.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Geoffrey Charles Peck

Serial No.:

Filed: Herewith / Conf. No.:

Title: IMPROVEMENTS IN OR RELATING TO SIFT-MS INSTRUMENTS

Attorney File: NW4248US (#90586)

Mail Stop PCT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

APPLICATION DATA SHEET

1. Applicant Information (including name, residence, mailing address and citizenship):

Geoffrey Charles Peck
Country of Citizenship: New Zealand
Residence: Christchurch, New Zealand
Mailing Address 28 Fisher Avenue, Beckenham, Christchurch, New Zealand

2. Correspondence Information:

D. Peter Hochberg Co., L.P.A.
1940 East 6th Street – 6th Floor
Cleveland, Ohio 44114
Phone: (216) 771-3800 / Fax: (216) 771-3804
Email: dphdocket@aol.com

Customer No. 28,672

3. Application Information:

Title: IMPROVMENTS IN OR RELATING TO SIFT-MS INSTRUMENTS

Suggested Class/Subclass (also for provisional applns. w/o claims): H01J 49/40

Total number of drawing sheets: 1

Suggested drawing figure for publication: 2

Docket number assigned to application: NW4248US (#90586)

Type of application (e.g., utility, plant, design, reissue, provisional): Utility

Any significant part of application subject matter subject to secrecy order: No

4) **Representative Information (including Reg. No. of each practitioner having Power of Atty.):**

D. Peter Hochberg	Reg. No. 24,603
Sean Mellino	Reg. No. 48,817

D. Peter Hochberg Co., L.P.A.
1940 East 6th Street – 6th Floor
Cleveland, Ohio 44114
Phone: (216) 771-3800 / Fax: (216) 771-3804
Email: dphdocket@aol.com

Customer No. 28,672

5) **Foreign Priority Information (including appln. no., country and filing date of each foreign appln. for which priority is claimed, as well as any foreign appln. having a filing date before that of the appln. for which priority is claimed):**

This application is a National Stage application of International Application No. PCT/NZ2004/000297, filed on November 24, 2004, which claims priority of New Zealand application No. 528617 filed on November 25, 2003, and New Zealand application No. 531103 filed on February 12, 2004.



6) Assignee Information (including name – either person or juristic entity – and address of the assignee of the entire right, title and interest in an appln.):

SYFT Technologies Limited
3 Craft Place
Middleton
Christchurch, 8002
New Zealand

Respectfully submitted,

By: Sean F. Mellino
Sean F. Mellino
Reg. No. 48,817

DPH/DS

Express Mail Certificate

D. Peter Hochberg Co., L.P.A.
1940 E. 6th Street - 6TH Floor
Cleveland, Ohio 44114
Phone: (216) 771-3800
Fax: (216) 771-3804

e-mail: dphdocket@aol.com

I hereby certify that the paper(s) identified above, and any noted as being attached, is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated below and is addressed: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Express Mail No.: EV713319772US

Daniel Smola: Daniel Smola

Date: May 23, 2006

10/580,355 SIFT-MS INSTRUMENTS



Select New Case	Application Data	Transaction History	Image File Wrapper	Patent Term Adjustments	Continuity Data	Foreign Priority	Fees	Published Documents	Address & Attorney/Agent
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This application is officially maintained in electronic form. To View: Click the desired Document Description. To Download and Print: Check the desired document(s) and click Start Download.

Available Documents

Mail Room Date	Document Code	Document Description	Page Count	Select All	Start Download	Clear All
09-10-2008	ISSUE.NTF	Issue Notification	1	<input type="checkbox"/>		
08-15-2008	IFEE	Issue Fee Payment (PTO-85B)	5	<input type="checkbox"/>		
05-12-2008	NOA	Notice of Allowance and Fees Due (PTOL-85)	7	<input type="checkbox"/>		
05-12-2008	892	List of references cited by examiner	1	<input type="checkbox"/>		
05-12-2008	SRNT	Examiner's search strategy and results	3	<input type="checkbox"/>		
05-12-2008	SRFW	Search information including classification, databases and other search related notes	1	<input type="checkbox"/>		
05-12-2008	FWCLM	Index of Claims	1	<input type="checkbox"/>		
05-12-2008	IIFW	Issue Information including classification, examiner, name, claim, renumbering, etc.	1	<input type="checkbox"/>		
05-12-2008	1449	List of References cited by applicant and considered by examiner	2	<input type="checkbox"/>		
05-12-2008	BIB	Bibliographic Data Sheet	1	<input type="checkbox"/>		
04-03-2008	NTC.PUB	Notice of Publication	1	<input type="checkbox"/>		
02-07-2008	A.PE	Preliminary Amendment	2	<input type="checkbox"/>		
02-07-2008	SPEC	Specification	1	<input type="checkbox"/>		
02-07-2008	CLM	Claims	3	<input type="checkbox"/>		
02-07-2008	REM	Applicant Arguments/Remarks Made in an Amendment	1	<input type="checkbox"/>		
02-07-2008	SPEC	Specification	9	<input type="checkbox"/>		
02-07-2008	ABST	Abstract	1	<input type="checkbox"/>		
02-07-2008	REM	Applicant Arguments/Remarks Made in an Amendment	11	<input type="checkbox"/>		
02-07-2008	WFEE	Fee Worksheet (PTO-06)	1	<input type="checkbox"/>		
01-21-2008	CFILE	Request for Corrected Filing Receipt	9	<input type="checkbox"/>		
12-28-2007	M903	Notice of DO/EO Acceptance Mailed	2	<input type="checkbox"/>		
12-28-2007	APP.FILE.REC	Filing Receipt	3	<input type="checkbox"/>		
05-23-2006	TRNA	Transmittal of New Application	3	<input type="checkbox"/>		
05-23-2006	136A	Authorization for Extension of Time all replies	3	<input type="checkbox"/>		
05-23-2006	SPEC	Specification	7	<input type="checkbox"/>		
05-23-2006	CLM	Claims	2	<input type="checkbox"/>		
05-23-2006	ABST	Abstract	1	<input type="checkbox"/>		
05-23-2006	DRW	Drawings-only black and white line drawings	1	<input type="checkbox"/>		
05-23-2006	OATH	Oath or Declaration filed	4	<input type="checkbox"/>		
05-23-2006	WFEE	Fee Worksheet (PTO-06)	1	<input type="checkbox"/>		
05-23-2006	A.PE	Preliminary Amendment	1	<input type="checkbox"/>		
05-23-2006	SPEC.NE	Specification-Amendment Not Entered	1	<input type="checkbox"/>		
05-23-2006	IDS.LET	Information Disclosure Statement Letter	2	<input type="checkbox"/>		
05-23-2006	IDS	Information Disclosure Statement (IDS) Filed (SB/08)	2	<input type="checkbox"/>		
05-23-2006	FOR	Foreign Reference	11	<input type="checkbox"/>		
05-23-2006	ADS	Application Data Sheet	3	<input type="checkbox"/>		
05-23-2006	371P	Documents submitted with 371 Applications	3	<input type="checkbox"/>		
05-23-2006	371P	Documents submitted with 371 Applications	5	<input type="checkbox"/>		
05-23-2006	371P	Documents submitted with 371 Applications	3	<input type="checkbox"/>		
05-23-2006	SPEC	Specification	7	<input type="checkbox"/>		
05-23-2006	CLM	Claims	2	<input type="checkbox"/>		
05-23-2006	ABST	Abstract	1	<input type="checkbox"/>		
05-23-2006	DRW	Drawings-only black and white line drawings	1	<input type="checkbox"/>		
05-23-2006	FRPR	Certified Copy of Foreign Priority Application	8	<input type="checkbox"/>		
05-23-2006	FRPR	Certified Copy of Foreign Priority Application	8	<input type="checkbox"/>		
05-23-2006	IMIS	Miscellaneous Internal Document	1	<input type="checkbox"/>		
05-23-2006	WFEE	Fee Worksheet (PTO-06)	1	<input type="checkbox"/>		
05-23-2006	WCLM	Claims Worksheet (PTO-2022)	1	<input type="checkbox"/>		
05-23-2006	WFEE	Fee Worksheet (PTO-06)	1	<input type="checkbox"/>		

Patent Application Information Retrieval

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10/580,355

SIFT-MS INSTRUMENTS



Select New Case	Application Data	Transaction History	Image File Wrapper	Patent Term Adjustments	Continuity Data	Foreign Priority	Published Documents	Address & Attorney/Agent
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Foreign Priority

Country	Priority	Priority Date
NEW ZEALAND	531103	02-14-2004
NEW ZEALAND	528617	11-25-2003

2/12/04


If you need help:

- Call the Patent Electronic Business Center at (866) 217-9197 (toll free) or e-mail EBC@uspto.gov for specific questions about Patent Application Information Retrieval (PAIR).
- Send general questions about USPTO programs to the [USPTO Contact Center \(UCC\)](#).
- If you experience technical difficulties or problems with this application, please report them via e-mail to [Electronic Business Support](#) or call 1 800-786-9199.

6/17/08 -
Called & left
msg. for
Tamara Gracey
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Patent Application Information Retrieval

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10/580,355

SIFT-MS INSTRUMENTS



Select New Case	Application Data	Transaction History	Image File Wrapper	Patent Term Adjustments	Continuity Data	Foreign Priority	Published Documents	Address & Attorney/Agent
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Foreign Priority

Country	Priority	Priority Date
NEW ZEALAND	531103	02-12-2004
NEW ZEALAND	528617	11-25-2003

as
Corrected

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- Call the Patent Electronic Business Center at (866) 217-9197 (toll free) or e-mail EBC@uspto.gov for specific questions about Patent Application Information Retrieval (PAIR).
- Send general questions about USPTO programs to the [USPTO Contact Center \(UCC\)](#).
- If you experience technical difficulties or problems with this application, please report them via e-mail to [Electronic Business Support](#) or call 1 800-786-9199.

6/18/08 9:20am
per TIC w/ Kayla Ballimore -
corr'd filing receipt is
coming. Should be mld
today. /ck

printed
6/18/08



US007429730B2

**(12) United States Patent
Peck****(10) Patent No.: US 7,429,730 B2****(45) Date of Patent: Sep. 30, 2008****(54) SIFT-MS INSTRUMENTS****(75) Inventor: Geoffrey Charles Peck, Christchurch
(NZ)****(73) Assignee: Syft Technologies Limited, Middleton,
Christchurch (NZ)****(*) Notice:** Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 291 days.**(21) Appl. No.: 10/580,355****(22) PCT Filed: Nov. 24, 2004****(86) PCT No.: PCT/NZ2004/000297**§ 371 (c)(1),
(2), (4) Date: **May 23, 2006****(87) PCT Pub. No.: WO2005/052984****PCT Pub. Date: Jun. 9, 2005****(65) Prior Publication Data****US 2008/0078929 A1 Apr. 3, 2008****(30) Foreign Application Priority Data**Nov. 25, 2003 (NZ) 528617
Feb. 14, 2004 (NZ) 531103**(52) U.S. Cl. 250/288; 250/287; 250/282;
250/285; 250/297; 250/281; 250/286; 250/292;
250/423 P; 250/396 R; 250/290****(58) Field of Classification Search 250/288,
250/287, 282, 285, 297, 281, 286, 292, 423 P,
250/396 R, 290**

See application file for complete search history.

(56) References Cited**U.S. PATENT DOCUMENTS**5,117,194 A 5/1992 Nakanishi et al.
5,202,563 A * 4/1993 Cotter et al. 250/287
6,498,342 B1 * 12/2002 Clemmer 250/287**FOREIGN PATENT DOCUMENTS**

EP 237259 9/1987

* cited by examiner

Primary Examiner—Jack I. Berman**Assistant Examiner—Meenakshi S Sahu****(74) Attorney, Agent, or Firm—D. Peter Hochberg; Sean F.
Mellino; Daniel J. Smola****(57) ABSTRACT**

A SIFT or SIFDT apparatus in which the upstream quadrupole and the downstream quadrupole are housed within a single evacuated chamber with the upstream quadrupole being connected to the downstream quadrupole by a curved flow tube. In a preferred form the interior of the chamber is divided into sections by an electrostatic shield which shields the upstream quadrupole and source connection from the downstream quadrupole and detector.

13 Claims, 1 Drawing Sheet↑
should be
Feb. 12, 2004
=